



Terrorism and war

Are we prepared ?

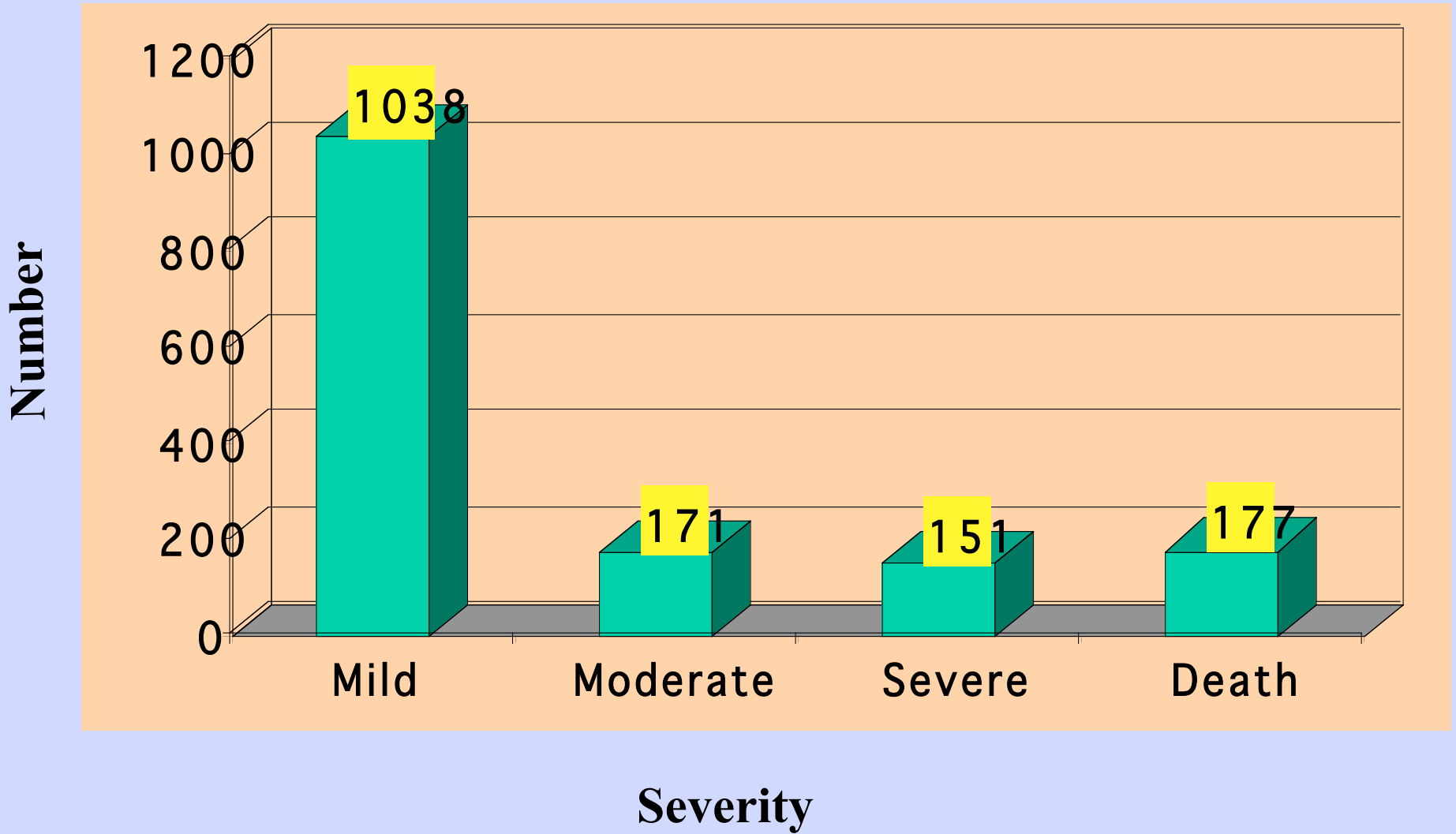


Present Continuous

(not perfect)

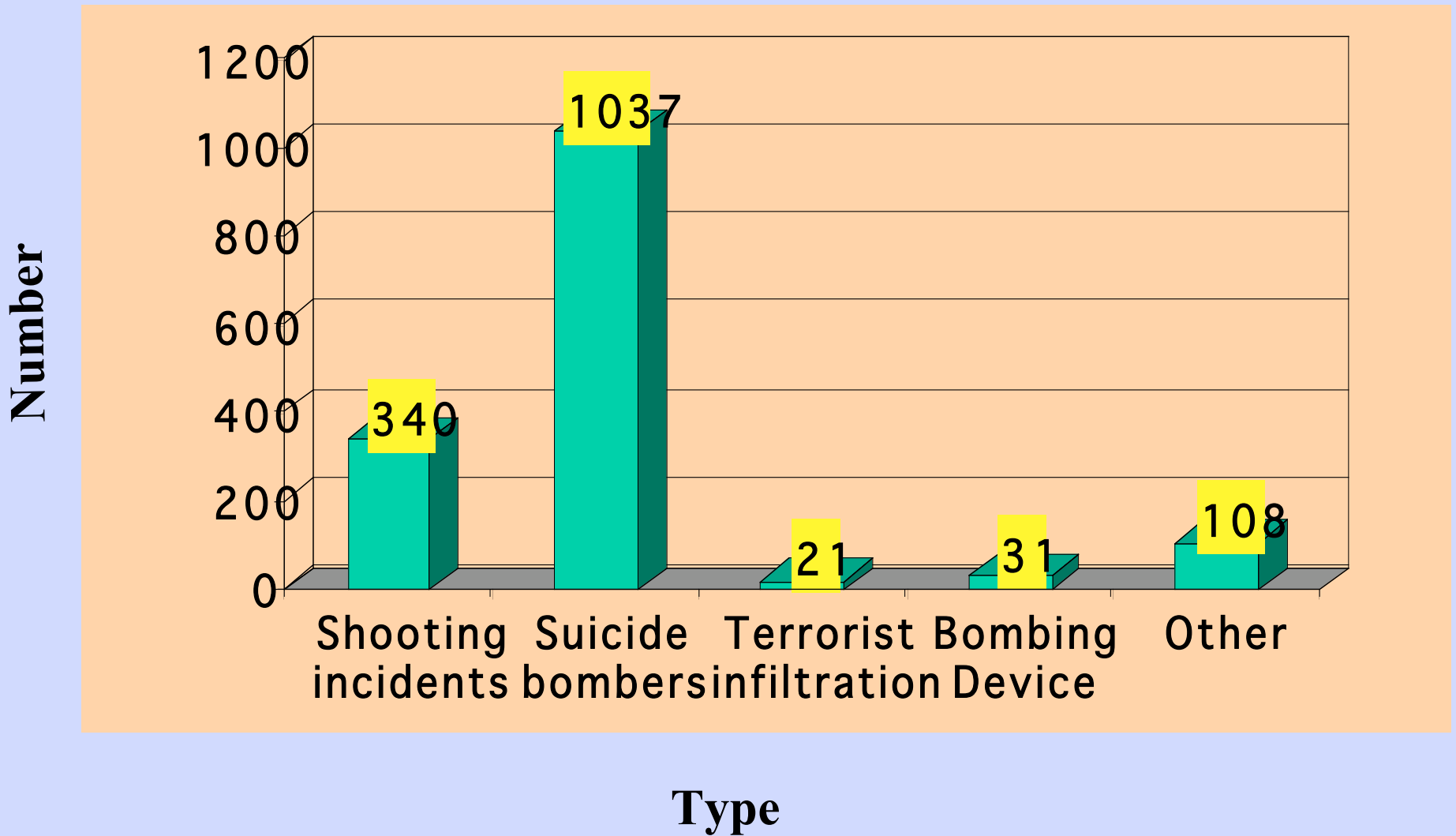
Number of Casualties

January-June 2002



Types of Multi Casualty Incidents

January-June 2002





Terrorism - Effects

- Raised level of anxiety
- Increasing demand for mental health services
- Increased workload – Hospitals, Rehab and community services
- Economic hardship



Near future Threats



Chemo - Threat

- **Agents:**

- Nerve agents (Volatile and nonvolatile)
- Mustards (not “Dijon”)

Preparedness:

Masks

**Contingency deployment –Hospitals and
medical platoons**

Decontamination

Hospital Deployment For Chemical Warfare



- ⌘ **Early Evacuation of Hospital Beds**
- ⌘ **Prevent Hospital Contamination**
- ⌘ **Initial and Secondary Triage**
- ⌘ **Mandatory
Decontamination**
- ⌘ **Therapeutic
Protocols**



Hospital Deployment For Chemical Warfare



Regulation Site

Initial Triage

Lying Casualties

Walking Casualties

Intubations

Decontamination

Secondary Triage

Resuscitation

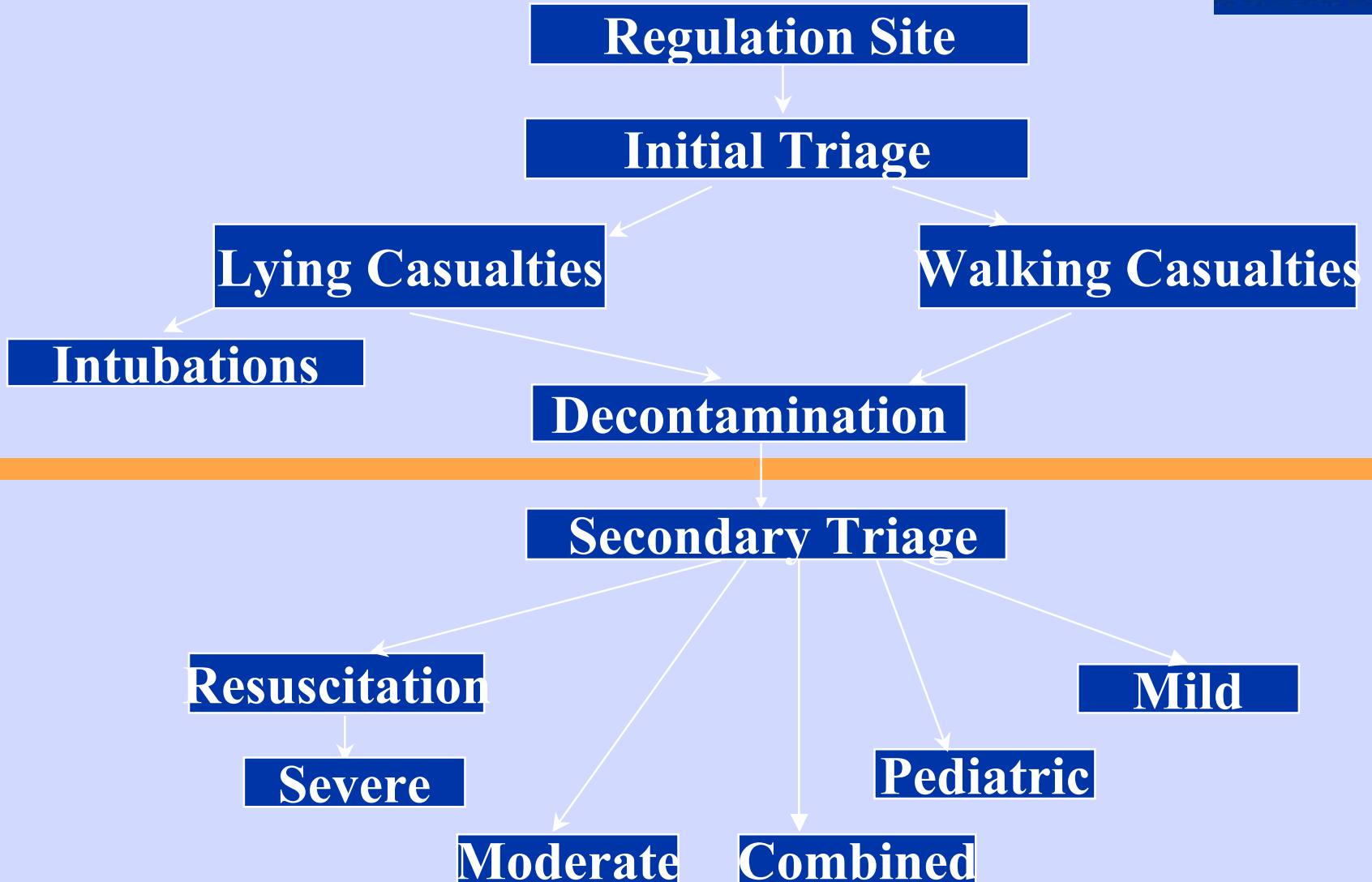
Mild

Severe

Pediatric

Moderate

Combined



Logistic Elements



- **Decontamination sites**
- **Heliports**
- **Oxygen tanks**
- **Warehouses**
- **Generators**
- **Water Reservoirs (3 Days)**
- **Specific computer programs**
- **Communication & radio equipment for alert and control of personnel**



The Bio threat

- **Terrorism – Silent, Hard to trace, Retrospect tracing and diagnosis**
- **War – Via warhead – Localized and traceable**
- **Agents:**
 - **Anthrax, Botulism (no human to human infectivity)**
 - **Plague, Smallpox and Hemorrhagic viruses (Epidemic, contagious)**



Early Detection of Bio-Event

- Surveillance – Outstanding morbidity when compared to monitored background
 - Clinics, Emergency departments, MDA, Intensive care
 - Microbiology labs -
 - Geographic Information system
- Central Reference Laboratory



Response

- Define area and population at risk
- Minimize movement
- Use mass media to inform and prevent panic
- Distribute protective measures (Pre-planned) – Antibiotics, Vaccines etc.
- Deploy medical personnel – Community’ Hospitals...
- Simple treatment algorithms

Deployment For Biological Warfare



Biological Event



Preventive Treatment



Limiting Areas

symptomatic

non symptomatic

HMO Clinics

Watchful waiting

←
Side Effects



Anthrax

- **Stockpiling Antibiotics**
- **Logistic plan for distribution – Post exposure**
- **Community and hospital preparedness**
- **Syndromic surveillance – ICDC**



Smallpox

- **Epidemic, highly infective and lethal**
- **Scarce information about access and “weaponization” by terrorists**
- **“Low Probability”**
- **High panic and terror profile**
- **Vaccinia vaccination provides protection**
- **Abundant side effects – rashes, encephalitis and death (1-2 per Million)**

Are we prepared ??



- **6 million doses available for immediate use (10 millions by the end of 2002)**
- **3500 First responders have been immunized**
- **12000 will be immunized until November**
- **Hyper immune plasma for VIG production is collected form the vaccinees**
- **Decision on mass vaccination – pending**





Scenarios

- **Post exposure – Contingency plan to vaccinate the population within 96 hours (Election day layout) – Risk of panic and “Balagan”**
- **Planned pre-exposure vaccination – Minimizes public health hazards and side effects**



The first round

- **Volunteers who have been immunized in the past**
- **First responders– Medical personnel, MDA, Police, Fire fighters etc.**
- **Willing to undergo plasmapheresis or donate blood (VIG production)**

Preparedness for Smallpox Outbreak



Communication & Panic Prevention

- **Preparation of public information materials**
- **Continuous informing of the public via the media to prevent panic and stress**
- **Operation of an Information center 24 hours a day**
- **Distribution of informative pamphlet for each person vaccinated**

Health Contingency Planning



- ⌘ **Training, Qualification Studies, Instructive Materials**
- ⌘ **Obligatory Drills on a Continuous Basis**
- ⌘ **Procurement of Equipment and Storage**
- ⌘ **Readiness Control & Assessment**



Components of Training Program



- **Active training in Simulation Center**
- **In-house training sessions:**
 - **Individual training**
 - **Sector or group training**
 - **Overall organization training**
- **Annual simulation exercises**
- **Periodic drill program**

Instructive Materials



- **Interactive computer program for MCI**
- **Educational Films**
- **Instruction Kits**





Thanks !

